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PROCEEDINGS
OF THE
MONTHLY MEETINGS
OF THE
ENTOMOLOGICAL SECTION
OF THE
ACADEMY OF NATURAL SCIENCES,
PHILADELPHIA.

JANUARY 26, 1888.

Director Dr. HORN in the chair.

The following additions to the Library of the American Entomological Society were announced:

Entomologia Americana, vol. iii, Nos. 9 and 10. From the Editor.

Canadian Entomologist, vol. xx, No. 1. From the Editor.

Transactions of the Kansas Academy of Sciences, vol. x, 1885-86.
From the Academy.

Bulletin of the Essex Institute, vol. xix, Nos. 1-3. From the Institute.

Bulletin of the Washburn College Laboratory of Natural History, vol. ii, Nos. 7 and 8. From the Laboratory.

Entomologist's Monthly Magazine, Dec. 1887 and Jan. 1888.
From the Conductors.

Le Naturaliste Canadien, vol. xvii, Nos. 4 and 5. From the Editor.

Annales de la Société Entomologique de France, 6e sér. tome vi, 1886. From the Society.

Bulletin de la Société Imperiale des Naturalistes de Moscow, 1887, No. 3. From the Society.

Verhandlungen der kaiserlich-königlichen zoologisch-botanischen Gesellschaft in Wien, vol. xxxvii, Nos. 1 and 2. From the Society.

Mittheilungen der Schweizerischen Entomologischen Gesellschaft, vol. vii, No. 7. From the Society.

The Spingidæ of New England, by C. H. Fernald. From the Author.

The Butterflies of Maine, by C. H. Fernald. From the Author.

The Butterflies of North America, by Wm. H. Edwards, 3d ser. Parts 1-3. From the Author.

The Entomological Writings of Dr. Alphonso Spring Packard, by Samuel Henshaw. From Prof. C. V. Riley.

The North American Callimorphas, by H. H. Lyman. From the Author.

A new genus and species of Arctiidæ—A new Sphinx—Notes on Diludia, G. & R.—New genera and species of North American Noctuidæ, by J. B. Smith. From the Author.

Studies on the North American Proctotrupidæ, with descriptions of new species from Florida, by Wm. H. Ashmead. From the Author.

Notes on the mode of pollination of *Asclepias*, by Charles Robertson. From the Author.

Annual Report of the Curator of the Museum of Comparative Zoology at Harvard College for 1886-87. From the Museum.

The Study of History in American Colleges and Universities, by H. B. Adams. From the Bureau of Education, Washington, D. C.

Recherches Expérimentales sur la vision chez les Arthropodes. Parts 1-2, par Félix Plateau. From the Author.

Catalogue d'Acridiens, par A. Pietet and H. de Saussure, I. From the Authors.

Spicilegia Entomologica Genavensis scripsit H. de Saussure, II. Tribu des Pamphagiens, 1887. From the Author.

Die Hymenopteren-Gattung *Gasteruption* Latr. (*Fœnus* Aut.) und *Evania* Fabr.—Zwei neue Arten des Hymenopteren-Gattung *Evania*, von August Schletterer. From George B. Cresson.

Die Metamorphose zweier Arten der Gattung *Anacharis* Dalm. von Anton Handlirsch. From George B. Cresson.

Synopsis of the Families and Genera of the Hymenoptera of America North of Mexico, by E. T. Cresson. From the Author.

Mr. J. F. Knight reported from Finance Committee that they had examined the accounts of Treasurer of Section and found them correct.

Report of Curator was read and accepted.

A communication from the Smithsonian Institution announcing the selection of Prof. S. P. Langley as secretary.

A paper was read from Dr. E. Brendel entitled: "Some corrections in the family Pselaphidæ," and the Publication Committee was authorized to print without delay.

Paper 206 was read by title and referred to Publication Committee.

Mr. Knight was called to the chair and Dr. Horn gave fuller details of the characters of Lachnosterna from his paper which had been printed.

Five species of Pleocoma were exhibited, and an explanation of their systematic position in the family Scarabæidæ given. Dr. Horn denied the assertion of Dr. Gerstaecker that they were Pleurostict, and demonstrated by dissections that Dr. LeConte had correctly placed them in the Laparostict series.

Dr. Horn exhibited a drawing of the larva of *Glyptus* found in the nests of the great white ant in Sierra Leone.

After a discussion on the availability and utility of Alaska as a collecting field, the Section, at 9.35, adjourned.

FEBRUARY 23, 1888.

Director Dr. HORN in the chair.

The following additions to the Library of the American Entomological Society were announced:

Transactions of the American Entomological Society vol. xiv, No. 2. From the Publication Committee.

Memoirs of the Boston Society of Natural History, vol. iv, Parts 1-4. From the Society.

Psyche, vol. v, Nos. 141-142, Jan.-Feb. 1888. From the Cambridge Entomological Club.

Entomologist's Monthly Magazine, February, 1888. From the Conductors.

Journal and Proceedings of the Royal Society of New South Wales, vol. xx, 1886. From the Society.

Butterflies of North America, Third Series, Part 4, by Wm. H. Edwards. From the Author.

Le Naturaliste Canadien, vol. xvii, No. 8. From the Editor.

Deutsche Entomologische, Zeitschrift, vol. xxxi, Part 2. From the Society.

Bulletino della Società Entomologica Italiana, 1887, Nos. 3-4. From the Society.

The Publication Committee reported that since their last report the paper of Dr. Horn entitled: "Revision of the species of *Lachnosterna* of America north of Mexico" had been entirely completed. Action approved.

Papers 207, 208 and 209 were read by title and referred to Publication Committee.

Mr. Wells presented three specimens of *Pamphila dera* for the cabinet.

Dr. Horn exhibited a phototype plate on which twelve specimens of *Pleocoma* were figured, three of them females, representing seven species. It was further stated that a full description of *Pleocoma* would be given with the view of answering Dr. Gerstaecker's criticism of LeConte's work. A number of drawings were exhibited, which it was proposed to publish shortly.

Dr. Horn also exhibited specimens of what he had no doubt were the larvæ of *Platypsylla* received recently from a friend in Texas. In this larva the mandibles are very distinct, but in the imago are entirely absent. The well developed maxillæ enable it to obtain food. Sketches of details were shown which, for better illustration, were enlarged on the blackboard. Adjourned 9.20.

MARCH 22, 1888.

Director Dr. HORN in the chair.

The following additions to the Library of the American Entomological Society were announced:

Proceedings of the Academy of Natural Sciences, 1887, Part 3. From the Academy.

Entomologist's Monthly Magazine, March, 1888. From the Conductors.

Entomologica Americana, March, 1888. From the Editor.

Psyche, vol. v, No. 143, March, 1888. From the Cambridge Entomological Club.

Bulletin de la Société Imperiale des Naturaliste de Moscow, 1887, No. 4. From the Society.

Verhandlungen der kaiserlich-königlichen zoologisch-botanischen Gesellschaft in Wien, vol. xxxvii, Nos. 3-4. From the Society.

Biologia Centrali-Americana: Coleoptera, vol. ii, pt. 1, pp. 137-168, pl. 4; pt. 2, pp. 177-200; vol. vi, pt. 1, pp. 601-625, pl. 33. Hymenoptera, pp. 449-456, pl. 19. Rhopalocera, pl. 58. By purchase.

The Publication Committee reported in favor of publishing paper 207 entitled: "The species of *Pleocoma* with a discussion of its position" by Geo. H. Horn, M. D.; also paper 208 entitled: "Some coleopterous larvæ," by Geo. H. Horn, M. D. Publication accordingly ordered.

Dr. Horn announced that, by permission of the Academy, the rooms of the Section may be opened during four Mondays of each month until 10 p. m.

Mr. Ridings moved that thirty dollars be appropriated for the services of the Academy's janitor.

Dr. Horn exhibited a dissection of the abdomen of *Pleocoma* spread between glass showing the position of the spiracles.

Dr. Horn spoke of the difficulty in properly defining *Allecula* and *Hymenorus*.

Dr. Skinner spoke of the previous opinions which had been expressed regarding the manner of emergence of a moth from the cocoon. In the case of the "Luna" the insect cuts its way through the base by serrated projections arising from the base of the forewings by means of which a circular opening was made. Adjourned 9.25.

APRIL 26, 1888.

Director Dr. HORN in the chair.

The following additions to the Library of the American Entomological Society were announced:

Canadian Entomologist, vol. xx, Nos. 2-3. From the Editor.

Entomologica Americana, vol. iv, No. 1. From the Editor.

Proceedings of the Entomological Society of Washington, vol. i, No. 2. From the Society.

Proceedings of the Linnean Society of New South Wales, 2d ser. vol. ii, Part 3. From the Society.

Journal of the Elisha Mitchell Scientific Society, 1887. From the Society.

Berliner Entomologische Zeitschrift. Zweites Heft, 1887. From the Society.

Synopsis of the Aphidæ of Minnesota, by O. W. Oestlund. From the Author.

Synopsis of the North American Syrphidæ, by S. W. Williston. From the Author.

Prodromus of the Zoology of Victoria, by Frederick McCoy, Decade i-xiv. From the Government of Victoria.

Recherches Expérimentales sur la vision chez les Arthropodes, Part 3, par F. Plateau. From the Author.

Expériences sur le rôle des palpes chez les Arthropodes maxillés—Troisième et dernière partie—Organes palpiformes des Crustacés, par Felix Plateau. From the Author.

Publication Committee reported in favor of publishing paper 209, entitled: "Monograph of the Sphingidæ of North America" by John B. Smith; also paper 210, entitled: "Miscellaneous Coleopterous Studies" by Geo. H. Horn, M. D. Publication ordered.

Mr. Liebeck, on behalf of Mr. Wenzel, announced the recent capture, near the city, of *Elater discoideus* and *E. collaris*.

Dr. Horn gave some details of a recent study of *Eustrophus*, noting the fact that in *bicolor* the hind tibiæ had well marked transverse ridges, while in *repandus* n. sp. they were entirely absent. Two species formerly placed in *Eustrophus* were removed to *Holostrophus* n. g. Other points in the general arrangement of Melandryidæ were also dwelt upon.

Dr. Skinner, in referring to his remarks at the preceding meeting, said that the armature at the base of the forewing of "Luna" had been called "sector cocouis" by Dr. Packard.

Mr. Westcott was admitted as an associate member. Adjourned 9.45.

MAY 24, 1888.

No quorum being present the meeting adjourned.

The following additions to the Library of the American Entomological Society were announced:

Memoirs of the Boston Society of Natural History, vol. iv, Nos. 5-6. From the Society.

Entomologica Americana, vol. iv, No. 2. From the Editor.

Canadian Entomologist, vol. xx, Nos. 4-5. From the Editor.

Bulletin of the Museum of Comparative Zoology at Harvard College, in Cambridge, vols. xiv-xv. From the Museum.

Bulletin of the Ohio Agricultural Experiment Station, 2d ser. No. 3. From C. M. Weed.

Psyche, vol. v, Nos. 144-145. From the Editor.

Proceedings of the Zoological Society of London, 1887, Part 4. From the Society.

Transactions and Proceedings and Report of the Royal Society of South Australia, vol. xiv. From the Society.

Entomologist's Monthly Magazine, April-May, 1888. From the Conductors.

Entomologische Zeitung, herausgegeben von dem Entomologischen Vereine zu Stettin, 1887. From the Society.

The Orthoptera of New England, by C. H. Fernald. From the Author.

Rhopalocera Nihonica—a description of the Butterflies of Japan, by H. Pryer, Part 1. By purchase.

A contribution to the study of the Morphology of the Chalcididæ, by L. O. Howard. From the Author.

On some new or little known British Parasitic Cynipidæ, by P. Cameron. From the Author.

Species des Hyménoptères d'Europe and 'Algérie, par Ed. Andre, Fasc 27-29, April, 1888. From the Author.

Matériaux pour la Faune Entomologique de la Province du Brabant—Coléoptères, quatrième Centurie, par A. P. de Borre. From the Author.

JUNE 11, 1888.

E. T. CRESSON in the chair.

The following additions to the Library of the American Entomological Society were announced:

Proceedings of the Academy of Natural Sciences of Philadelphia, 1888, Part 1. From the Academy.

Canadian Entomologist, vol. xx, No. 6. From the Editor.

Bulletin of the Essex Institute, vol. xix, Nos. 4-12. From the Institute.

Entomologica Americana, vol. iv, No. 3. From the Editor.

Entomologist's Monthly Magazine, June, 1888. From the Conductors.

Deutsche Entomologische Zeitschrift, 1888, Heft 1. From the Society.

Verhandlungen des naturhistorischen Vereines, vol. v, No. 4. From the Society.

Butterflies of North America, by Wm. H. Edwards, 3d ser. Part 5. From the Author.

Biologia Centrali-Americana: Coleoptera, vol. ii, pt. 1, pp. 169-176, pl. 16; pt. 2, pp. 201-216, pl. 10-11; vol. vii, pp. 49-72, pl. 3. Hymenoptera, pp. 457-466. Diptera, vol. ii, 1-40, pl. 1-2. By purchase.

Publication Committee announced that since January there had been 128 pages of the Transactions printed.

Mr. Seeber announced the recent capture of *Saperda puncticollis* on *Rhus toxicodendron*.

After some general remarks on collecting the Section, on motion of Mr. Blake, adjourned until September. Adjourned 9.10.

SEPTEMBER 27, 1888.

E. T. CRESSON in the chair.

The following additions to the Library of the American Entomological Society were announced:

Proceedings of the Boston Society of Natural History, vol. xviii, sig. 29-35; vol. xix, sig. 1-2. From the Society.

Bulletin of the Museum of Comparative Zoology, vol. xviii, Nos. 9-10. From the Museum.

Canadian Entomologist, vol. xx, Nos. 6-9. From the Editor.

Entomologica Americana, vol. iv, Nos. 4-6. From the Editor.

Psyche, vol. v, Nos. 146-148. From the Cambridge Entomological Club.

Journal of the Trenton Natural History Society, No. 3, January, 1888. From the Society.

Eighteenth Annual Report of the Entomological Society of Ontario, 1887. From the Society.

Proceedings of the Zoological Society of London, 1888, Part 1. From the Society.

Entomologist's Monthly Magazine, Nos. 290-292. From the Conductors.

Journal of the Linnean Society of London, Nos. 118, 130, 131, 136-139, 1887-1888. From the Society.

Journal of the Royal Society of New South Wales, vol. xxi, 1887. From the Society.

Annual Report of the Smithsonian Institution, 1885, Part 2. From the Institution.

Periodical Bulletin of the Division of Entomology, U. S. Department of Agriculture, vol. i. Nos. 1-2. From the Department.

Bulletin No. 15 of the Division of Entomology, U. S. Department of Agriculture. From the Department.

Bulletin of the Hatch Experiment Station of the Massachusetts Agricultural College, No. 1, July, 1888. From Prof. C. H. Fernald.

Bulletin of the Ohio Agricultural Experiment Station, No. 4, 2d ser. July, 1888. From C. M. Weed.

Bulletin of the Experiment Station of the Kansas Agricultural College, No. 3, June, 1888. From E. A. Popenoe.

Le Naturaliste Canadien, vol. xvii, Nos. 11-12; vol. xviii, Nos. 1-3. From the Editor.

Annales de la Société Entomologique de France, 1887, Nos. 1-4. From the Society.

Berliner Entomologische Zeitschrift, Band xxxii, No. 1. From the Society.

Verhandlungen der kaiserlich-königlichen zoologisch-botanischen Gesellschaft in Wien, Band xxxviii, Nr. 1-2. From the Society.

Mittheilungen der Schweizerischen Entomologischen Gesellschaft, Band vii, Nr. 10; viii, Nr. 1. From the Society.

Memoirs de la Sociedad Cientifica Antonia Alzate, Tome i, Nr. 1-12. From the Society.

Archives do Museu Nacional do Rio de Janeiro, vol. vii. From the Museum.

Annuario del Museo Zoologico della r. Universita di Napoli. Anno. ii. From the University.

Descriptions of twenty-three new species of Hymenoptera, by P. Cameron. From the Author.

Nesting Habits of the American Purseweb Spider, by Rev. H. C. McCook. From the Author.

New Genera and Species of Epipaschiæ and Phycitidæ, by Geo. D. Hulst. From the Author.

Address by C. V. Riley before the Section of Biology, American Association for Advancement of Science, August, 1888. From the Author.

Remarks on the Insect Defoliators of our Shade Trees—Poisonous Insects—The Song Notes of the Periodical Cicada—The Hessian Fly an imported insect—The Problem of the Hop-plant Louse (*Phorodon humuli*) in Europe and America—On the Luminous Larviform Females in the Phengodini, by C. V. Riley. From the Author.

The following were by purchase :

Lepidoptera Exotica, or descriptions and illustrations of Exotic Lepidoptera, by A. G. Butler, 1869–1874 ; 1 vol.

Catalogue of Diurnal Lepidoptera of the Family Satyridæ in the Collection of the British Museum, by A. G. Butler, 1868 ; 1 vol.

Etudes d'Entomologie. Faune des Lépidoptères d'Algérie, par Charles Oberthür, 1876.

Enumeratio Corporum Animalium Musei Imperialis Academiae Scientiarum Petropolitanae. Pars 1–2, Lepidoptera Diurna and Heterocera, 1855–57.

Biologia Centrali-Americana : Coleoptera, vol. ii, Part 1, pp. 177–208 ; Part 2, pp. 217–296, plates 12–15 ; vol. iv, Part 1, pp. 385–408, pl. 17 ; vol. vi, Part 1, Suppl. pp. 1–40, pl. 34–35 ; vol. vii, pp. 73–88, pl. 4.

Papers 211 and 212 were read by title and referred to Publication Committee.

Mr. Liebeck announced that he had recently collected *Mecynotarsus candidus* running about on plowed ground near Westville, N. J. The insect had not been previously collected north of Fortress Monroe.

Mr. Ashmead exhibited drawings of the larvæ and imago of a Hymenopterous insect recently studied, which he proposes to describe as *Kormus maidis*. Drawings of *Aleurodes citri* were also shown.

After conversation the Section adjourned at 9.45.

OCTOBER 25, 1888.

Director Dr. HORN in the chair.

The following additions to the Library of the American Entomological Society were announced :

Transactions of the American Entomological Society, vol. xv, Nos. 2–3, 1888. From the Publication Committee.

Canadian Entomologist, vol. xx, No. 10, October, 1888. From the Editor.

Bulletin of the Illinois State Laboratory of Natural History, vol. ii, Art. 1, 2, 3, 5, 6 and 7; vol. iii, Art. 2-4. From the Laboratory.

Bulletins 10 and 11 of the Division of Entomology, U. S. Department of Agriculture. From the Department.

Bulletin of the Hatch Experiment Station of the Massachusetts Agricultural College, No. 2. From Prof. C. H. Fernald.

Transactions of the Entomological Society of London, 1887. From the Society.

On the Chinch-Bug—Arsenical Poisons for the Codling Moth, by S. A. Forbes. From the Author.

The Publication Committee reported in favor of publishing paper 211, entitled: "Diptera Brasiliana ab H. H. Smith collecta" by S. W. Williston; also 212, entitled: "Description of the larva of *Papilio Gundlachiana* two days before its transformation into a chrysalis" by Alfred Benzon. Publication ordered accordingly.

The donation of a number of Hymenoptera to the cabinet of the American Entomological Society by L. O. Howard, on behalf of the U. S. National Museum, was announced.

Dr. Horn announced the addition to the Wilt collection of a number of species not formerly reported.

Papers 213, 214, 215 and 216 were read by title and referred to Publication Committee.

Dr. McCook spoke of the difficulty in observing spiders owing to the continuous wet weather. He desired from members information as to those insects "feigning death" when disturbed.

Dr. Horn spoke of the examination of types of North American insects in European museums. The differences between so called types and their descriptions were sometimes so great as to be very puzzling. Among the Chrysomelidæ Mr. Jacoby had investigated several types and the results would be presented to our Section for publication; also Mr. C. J. Gahan had reviewed several Cerambycidæ with useful results.

After a discussion of "types" and their value the Section, at 9.30, adjourned.

NOVEMBER 22, 1888.

Director Dr. HORN in the chair.

The following additions to the Library of the American Entomological Society were announced:

Proceedings of the Academy of Natural Sciences, 1888, Part 2. From the Academy.

Entomologica Americana, vol. iv, No. 7-8. From the Editor.

Canadian Entomologist, vol. xx, No. 11. From the Editor.

Bulletin No. 19 of Division of Entomology, U. S. Department of Agriculture, 1888. From the Department.

Periodical Bulletin of Division of Entomology, U. S. Department of Agriculture, vol i, Nos. 3-4. From the Department.

Entomologist's Monthly Magazine, October and November, 1888. From the Conductors.

Psyche, vol. v, Nos. 149-150. From the Cambridge Entomological Club.

Proceedings of the Zoological Society of London, 1888, Part 3. From the Society.

Le Naturaliste Canadien, vol. xviii, No. 4. From the Editor.

Annales de la Société Entomologique de Belgique, vol. xxxi, 1888. From the Society.

Bulletin de la Société Imperiale des Naturalistes de Moscou, 1888, Nos. 1-2. From the Society.

Horæ Societatis Entomologicæ Rossicæ, vol. xxi, 1887. From the Society.

Verhandlungen des naturhistorischen Vereines der preussischen Rheinlande, etc., ser. 5, vol. v, Nr. 1. From the Society.

Report of the Entomologist, C. V. Riley, for 1887. From the Author.

Matériaux pour la Faune Entomologique de la province de Liège, 4e centurie, et Luxembourg belge, 3e centurie; par A. P. de Borre. From the Author.

The following were by purchase:

Naturgeschichte du Insecten Deutschlands begonnen von Dr. W. F. Erichson. *Coleoptera*, vol. vi, Nr. 5.

First Supplement to the List of Coleoptera of America North of Mexico, by Samuel Henshaw.

Check List of the North American Macrolepidoptera, 1882.

Check List of the Hemiptera Heteroptera of North America, by P. R. Uhler.

Biologia Centrali-Americana: Coleoptera, vol. ii, pt. 1, pp. 209-232, pl. 18; Part 2, pp. 297-312, pl. 16; vol. iv, pt. 1, pp. 409-424, pl. 18; vol. vi, pt. 1, pp. 41-56. *Hymenoptera*, vol. ii, pp. 1-24, pl. 1-2.

Curator reported work done during past month.

The Publication Committee reported in favor of paper 213, entitled: "Descriptions of some new or little known Microgasterinæ" by Clarence M. Weed; also paper 214, entitled: "Notes on some North American Halticinæ (Group Monoplati) by Martin Jacoby, London, Eng. (with supplementary notes by Geo. H. Horn, M. D.); also paper 215, entitled: "Notes on some types of Cerambycidæ in the British Museum" by C. J. Gahan, with explanatory notes by Geo. H. Horn, M. D.; also paper 216, entitled: "Revision of the North American species of *Cardiophorus*" by Frederick Blanchard. Report accepted and publication ordered.

Papers 217, 218 and 219 were read by title and referred to Publication Committee.

Dr. Horn stated that his attention had been lately directed to the Halticinæ, and stated that it was his intention to review them in order that some uniform nomenclature might prevail. At present no two collections are similarly named, and in none of them is there even a reasonable approach to correctness.

It was important to note the food plants of these insects as they were all more or less injurious. The great extent of color variation was stated. The secondary sexual characters afford, in many cases, the means of separating closely allied species. These were represented on the board.

Mr. Aaron asked for information regarding the stations established under the "Hatch Bill," and it was stated that these were, for the most part, connected with the Agricultural Colleges, which had been established in many States.

Mr. Aaron spoke of the color variation in the wings of some Hesperidæ, and the question was discussed as to how far these had a specific value.

Mr. Aaron moved that a committee of three be appointed to prepare nominations for the election in December, and Messrs. Aaron, Blake and Skinner were appointed.

The next meeting, it was announced, would be held December 10th, after that of the American Entomological Society. Adjourned 9.50.

DECEMBER 10, 1888.

Mr. J FRANK KNIGHT in the chair.

Mr. E. T. Cresson presented his report as Treasurer and was referred to Finance Committee for audit.

The Recorder made a brief report of the doings of past year.

The committee appointed to prepare a list to be voted upon presented their report, which was accepted and postponed until election should be reached.

Mr. Cresson presented a bill for the steam radiators recently placed in the room greatly to our comfort. The bill of \$47.29 was ordered paid.

Mr. Aaron moved the appropriation of \$10 for the Academy's janitor for services for the coming year.

Election being in order Mr. Smith moved that the Recorder cast the ballot in accordance with the report of the committee.

The Director *pro. tem.* announced the following election :

Director,—G. H. Horn, M. D.

Vice-Director,—H. C. McCook, D. D.

Recorder,—James H. Ridings.

Treasurer,—E. T. Cresson.

Conservator,—G. B. Cresson.

Publication Committee,—Philip Laurent, H. Skinner, M. D.
